

## What is P-REACT?

Petty Crimes (also known as Volume Crime) take place on a daily basis affecting citizens, local communities, business owners and infrastructure owners. Petty Crime incidents such as theft, criminal damage and anti-social behaviour are on the rise in Europe due to the economic crisis and in turn incidents adversely impact the local socio-economic environment.

The P-REACT project will design and develop a low cost surveillance platform that will detect Petty Crime incidents. The solution will encompass intelligent video and audio sensors to detect Petty Crime incidents, a cloud based monitoring, alert detection and storage platform. Technology trends in computer vision, motion detection, video retrieval, semantic video analysis and cloud technology will be exploited.

The solution will focus on connecting citizens, business owners, infrastructure owners and security and law enforcement personnel so that Petty Crime incidents can be effectively dealt with and prevented in the future.

The project will ensure that legal, ethical and end user needs are properly balanced and addressed ensuring a 'Privacy-by-design' solution approach.



## P-REACT



### Project Details

Duration: **24 Months**  
Reference: **GA no 607881**  
Budget: **1.89 million EUR.**  
Funding: **1.48 million EUR.**  
Call: **FP7-SEC-2013**

### Project Coordination

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## P-REACT

Petty cRiminality diminution through  
sEarch and **A**nalysis in multi-source  
video **C**apturing and archiving plat**F**orm



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## Benefits

The term Volume Crime is often used so as to denote the significant impact on the community and the ability of the police to tackle it through its sheer volume or frequency. Under this definition, the term volume crime does not infer that crimes that fall under this classification have no impact, contrarily once amalgamated their impact is significant on the community and therefore of great importance.

The project will explore 'economic cost' and 'social cost' of Petty Crimes encompassing both the financial impacts but also other consequential impacts such as trauma, physical injury, fear and other impacts on society that cannot be expressed in financial terms.

The P-REACT project will focus on impact of petty crime on citizens, business owners, infrastructure owners and security and law enforcement personnel. The research will seek to develop a solution based around the needs and concerns of these key identified users in an urban environment. There will be a focus on commercial retail and transportation domains where the community typically interconnects.

### Segments of society that will benefit

- Citizens.
- Small Business owners/ Retailers.
- Infrastructure owners including Transport Infrastructure owners and operators.
- Private Security Organisations.
- Law Enforcements Agencies.
- The criminal justice system.

### Foreseen Benefits

It is expected that the following benefits will be obtained by the results of the project:

- Reduction in Petty Crime incidents.
- Increased safety and security in urban and transport area.
- Reduction of fear of Petty Crime among citizens.
- The provision of offender information and evidence for conviction purposes.
- Improved responses by Law Enforcement Agencies.
- Better resource allocation by Law Enforcement Agencies.
- Improved crime reporting and analysis.



## Overview

In the P-REACT project there will be a focus on utilising open existing and standardised technologies and procedures to develop the solution so that it will be interoperable. The solution will be designed, developed and tested with end users during the project.

The expected results of the P-REACT project are:

- The development of Intelligent Sensors (image & audio) capable of detecting petty crime incidents.
- The development of a cloud based Video Content Management Solution (VCMS).
- The creation of a Petty Crime reporting and mapping solution that encourages community participation.
- A solution which takes into account a 'Privacy-by-design' approach.
- Exploitation of the solution during trials based on user defined scenarios.

